

Gregory Mahy

List of Publications by Year in descending order

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107
papers

3,895
citations

136950

32
h-index

144013

57
g-index

114
all docs

114
docs citations

114
times ranked

5023
citing authors

#	ARTICLE	IF	CITATIONS
1	Toward an old-growth concept for grasslands, savannas, and woodlands. <i>Frontiers in Ecology and the Environment</i> , 2015, 13, 154-162.	4.0	349
2	Where Tree Planting and Forest Expansion are Bad for Biodiversity and Ecosystem Services. <i>BioScience</i> , 2015, 65, 1011-1018.	4.9	298
3	Resilience and restoration of tropical and subtropical grasslands, savannas, and grassy woodlands. <i>Biological Reviews</i> , 2019, 94, 590-609.	10.4	205
4	Copper and cobalt accumulation in plants: a critical assessment of the current state of knowledge. <i>New Phytologist</i> , 2017, 213, 537-551.	7.3	190
5	Comment on "The global tree restoration potential". <i>Science</i> , 2019, 366, .	12.6	185
6	Tyranny of trees in grassy biomes. <i>Science</i> , 2015, 347, 484-485.	12.6	140
7	Mucilage and polysaccharides in the halophyte plant species <i>Kosteletzkya virginica</i> : Localization and composition in relation to salt stress. <i>Journal of Plant Physiology</i> , 2010, 167, 382-392.	3.5	105
8	Assessment of soil metal distribution and environmental impact of mining in Katanga (Democratic Republic of the Congo). <i>Journal of Geochemical Exploration</i> , 2010, 104, 10-19.	3.0	98
9	<i>Kosteletzkya virginica</i> , an agroecoengineering halophytic species for alternative agricultural production in China's east coast: Ecological adaptation and benefits, seed yield, oil content, fatty acid and biodiesel properties. <i>Ecological Engineering</i> , 2008, 32, 320-328.	3.6	68
10	Hybridization and morphogenetic variation in the invasive alien <i>Fallopia</i> (Polygonaceae) complex in Belgium. <i>American Journal of Botany</i> , 2007, 94, 1900-1910.	1.7	65
11	Clinal differentiation during invasion: <i>Senecio inaequidens</i> (Asteraceae) along altitudinal gradients in Europe. <i>Oecologia</i> , 2009, 159, 305-315.	2.0	65
12	Hybridization and Sexual Reproduction in the Invasive Alien <i>Fallopia</i> (Polygonaceae) Complex in Belgium. <i>Annals of Botany</i> , 2007, 99, 193-203.	2.9	64
13	Plants sustain the terrestrial silicon cycle during ecosystem retrogression. <i>Science</i> , 2020, 369, 1245-1248.	12.6	57
14	Evolution of dispersal traits along an invasion route in the wind-dispersed <i>Senecio inaequidens</i> (Asteraceae). <i>Oikos</i> , 2010, 119, 1563-1570.	2.7	56
15	Plant species extinction debt in a temperate biodiversity hotspot: Community, species and functional traits approaches. <i>Biological Conservation</i> , 2011, 144, 1619-1629.	4.1	53
16	Copper endemism in the Congolese flora: a database of copper affinity and conservational value of cuprophytes. <i>Plant Ecology and Evolution</i> , 2010, 143, 5-18.	0.7	49
17	Forest refugia revisited: nSSRs and cpDNA sequences support historical isolation in a wide-spread African tree with high colonization capacity, <i>Milicia excelsa</i> (Moraceae). <i>Molecular Ecology</i> , 2010, 19, 4462-4477.	3.9	47
18	Rapid restoration of a species-rich ecosystem assessed from soil and vegetation indicators: The case of calcareous grasslands restored from forest stands. <i>Ecological Indicators</i> , 2011, 11, 724-733.	6.3	47

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19	Plant functional traits as a promising tool for the ecological restoration of degraded tropical metal-rich habitats and revegetation of metal-rich bare soils: A case study in copper vegetation of Katanga, DRC. <i>Ecological Engineering</i> , 2015, 82, 214-221.	3.6	46
20	Vegetation and seed bank in a calcareous grassland restored from a <i>Pinus</i> forest. <i>Applied Vegetation Science</i> , 2005, 8, 167-174.	1.9	45
21	Spatial genetic structure in <i>Milicia excelsa</i> (Moraceae) indicates extensive gene dispersal in a low-density wind-pollinated tropical tree. <i>Molecular Ecology</i> , 2009, 18, 4398-4408.	3.9	45
22	Vegetation and seed bank in a calcareous grassland restored from a <i>Pinus</i> forest. <i>Applied Vegetation Science</i> , 2005, 8, 167.	1.9	44
23	Prediction of the edaphic factors influence upon the copper and cobalt accumulation in two metallophytes using copper and cobalt speciation in soils. <i>Plant and Soil</i> , 2014, 379, 275-287.	3.7	44
24	Patterns of allozymic variation within <i>Calluna vulgaris</i> populations at seed bank and adult stages. <i>Heredity</i> , 1999, 82, 432-440.	2.6	43
25	Soil influence on Cu and Co uptake and plant size in the cuprophytes <i>Crepidorhapon perennis</i> and <i>C. tenuis</i> (Scrophulariaceae) in SC Africa. <i>Plant and Soil</i> , 2009, 317, 201-212.	3.7	43
26	Colonization Credit in Restored Wet Heathlands. <i>Restoration Ecology</i> , 2010, 18, 645-655.	2.9	43
27	Floristic evidence for alternative biome states in tropical Africa. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 28183-28190.	7.1	41
28	Genetic structure of quinoa (<i>Chenopodium quinoa</i> Willd.) from the Bolivian altiplano as revealed by RAPD markers. <i>Genetic Resources and Crop Evolution</i> , 2007, 54, 897-905.	1.6	40
29	Taxa distribution and RAPD markers indicate different origin and regional differentiation of hybrids in the invasive <i>Fallopia</i> complex in central-western Europe. <i>Plant Biology</i> , 2010, 12, 215-223.	3.8	37
30	May Rare Metallophytes Benefit from Disturbed Soils Following Mining Activity? The Case of the <i>Crepidorhapon tenuis</i> in Katanga (D. R. Congo). <i>Restoration Ecology</i> , 2011, 19, 333-343.	2.9	35
31	Perception and Understanding of Invasive Alien Species Issues by Nature Conservation and Horticulture Professionals in Belgium. <i>Environmental Management</i> , 2011, 47, 425-442.	2.7	35
32	Can Land Managers Control Japanese Knotweed? Lessons from Control Tests in Belgium. <i>Environmental Management</i> , 2012, 50, 1089-1097.	2.7	35
33	Copper tolerance and accumulation in two cuprophytes of South Central Africa: <i>Crepidorhapon perennis</i> and <i>C. tenuis</i> (Linderniaceae). <i>Environmental and Experimental Botany</i> , 2012, 84, 11-16.	4.2	34
34	Investigating the Vegetation-Soil Relationships on the Copper-Cobalt Rock Outcrops of Katanga (D. R.) Tj ETQo 0 0 rgBT /Overloc	2.9	34
35	Three years of phytostabilisation experiment of bare acidic soil extremely contaminated by copper smelting using plant biodiversity of metal-rich soils in tropical Africa (Katanga, DR Congo). <i>Ecological Engineering</i> , 2015, 82, 81-90.	3.6	34
36	Early Inbreeding Depression and Pollen Competition in <i>Calluna vulgaris</i> (L.) Hull.. <i>Annals of Botany</i> , 1999, 83, 697-704.	2.9	33

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37	Allozyme diversity and genetic structure in Southâ€Western populations of heather, <i>Calluna vulgaris</i> . <i>New Phytologist</i> , 1997, 137, 325-334.	7.3	32
38	Landscape dynamics and habitat selection by the alien invasive <i>Fallopia</i> (Polygonaceae) in Belgium. <i>Biodiversity and Conservation</i> , 2008, 17, 2357-2370.	2.6	32
39	Potential of copper-tolerant grasses to implement phytostabilisation strategies on polluted soils in South D. R. Congo. <i>Environmental Science and Pollution Research</i> , 2016, 23, 13693-13705.	5.3	31
40	Increasing plant functional diversity is not the key for supporting pollinators in wildflower strips. <i>Agriculture, Ecosystems and Environment</i> , 2017, 249, 144-155.	5.3	31
41	The generalist pollination system and reproductive success of <i>Calluna vulgaris</i> in the Upper Ardenne. <i>Canadian Journal of Botany</i> , 1998, 76, 1843-1851.	1.1	31
42	Chemical soil factors influencing plant assemblages along copper-cobalt gradients: implications for conservation and restoration. <i>Plant and Soil</i> , 2013, 373, 455-469.	3.7	30
43	Rapid Plant Invasion in Distinct Climates Involves Different Sources of Phenotypic Variation. <i>PLoS ONE</i> , 2013, 8, e55627.	2.5	30
44	Spider communities as evaluation tools for wet heathland restoration. <i>Ecological Indicators</i> , 2010, 10, 773-780.	6.3	29
45	Bimodal pollination system in rare endemic <i>Oncocylus irises</i> (Iridaceae) of Lebanon. <i>Canadian Journal of Botany</i> , 2006, 84, 1327-1338.	1.1	28
46	Testing coexistence of extinction debt and colonization credit in fragmented calcareous grasslands with complex historical dynamics. <i>Landscape Ecology</i> , 2011, 26, 823-836.	4.2	28
47	A shift from phenol to silicaâ€based leaf defences during longâ€term soil and ecosystem development. <i>Ecology Letters</i> , 2021, 24, 984-995.	6.4	27
48	Phenological patterns in a natural population of a tropical timber tree species, <i>Milicia excelsa</i> (Moraceae): Evidence of isolation by time and its interaction with feeding strategies of dispersers. <i>American Journal of Botany</i> , 2012, 99, 1453-1463.	1.7	26
49	Implication of plant-soil relationships for conservation and restoration of copper-cobalt ecosystems. <i>Plant and Soil</i> , 2016, 403, 153-165.	3.7	26
50	An explicit test for the contribution of environmental maternal effects to rapid clinal differentiation in an invasive plant. <i>Journal of Evolutionary Biology</i> , 2009, 22, 917-926.	1.7	25
51	Response of plant functional traits during the restoration of calcareous grasslands from forest stands. <i>Ecological Indicators</i> , 2015, 48, 408-416.	6.3	25
52	Fitness and genetic variation of <i>Viola calaminaria</i> , an endemic metallophyte: implications of population structure and history. <i>Plant Biology</i> , 2008, 10, 684-693.	3.8	24
53	Speciation slowing down in widespread and long-living tree taxa: insights from the tropical timber tree genus <i>Milicia</i> (Moraceae). <i>Heredity</i> , 2014, 113, 74-85.	2.6	24
54	Historical landscape structure affects plant species richness in wet heathlands with complex landscape dynamics. <i>Landscape and Urban Planning</i> , 2010, 98, 92-98.	7.5	23

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55	Comparison of translocation methods to conserve metallophyte communities in the Southeastern D.R. Congo. <i>Environmental Science and Pollution Research</i> , 2016, 23, 13681-13692.	5.3	22
56	Management of Grassland-like Wildflower Strips Sown on Nutrient-rich Arable Soils: The Role of Grass Density and Mowing Regime. <i>Environmental Management</i> , 2019, 63, 647-657.	2.7	22
57	The generalist pollination system and reproductive success of <i>Calluna vulgaris</i> in the Upper Ardenne. <i>Canadian Journal of Botany</i> , 1998, 76, 1843-1851.	1.1	21
58	Allozyme variation and genetic structure of <i>Calluna vulgaris</i> (heather) populations in Scotland: the effect of postglacial recolonization. <i>Heredity</i> , 1999, 82, 654-660.	2.6	20
59	Within-population genetic structure and clonal diversity of a threatened endemic metallophyte, <i>Viola calaminaria</i> (Violaceae). <i>American Journal of Botany</i> , 2007, 94, 887-895.	1.7	20
60	Community variation in plant traits along copper and cobalt gradients. <i>Journal of Vegetation Science</i> , 2016, 27, 854-864.	2.2	20
61	Small-scale diversity of plant communities and distribution of species niches on a copper rock outcrop in Upper Katanga, D.R.Congo. <i>Plant Ecology and Evolution</i> , 2013, 146, 173-182.	0.7	18
62	Effects of seed traits variation on seedling performance of the invasive weed, <i>Ambrosia artemisiifolia</i> L.. <i>Acta Oecologica</i> , 2016, 71, 39-46.	1.1	18
63	A sharp floristic discontinuity revealed by the biogeographic regionalization of African savannas. <i>Journal of Biogeography</i> , 2019, 46, 454-465.	3.0	17
64	Comparative Chemical and Molecular Variability of <i>Cananga odorata</i> (Lam.) Hook.f. & Thomson forma <i>genuina</i> (Ylang-Ylang) in the Western Indian Ocean Islands: Implication for Valorization. <i>Chemistry and Biodiversity</i> , 2012, 9, 1389-1402.	2.1	15
65	Ecology and Hybridization Potential of Two Sympatric Metallophytes, the Narrow Endemic <i>Crepidiorhodon perennis</i> (Linderniaceae) and its More Widespread Congener <i>C. tenuis</i> . <i>Biotropica</i> , 2012, 44, 454-462.	1.6	15
66	Variation of growth and functional traits of invasive knotweeds (<i>Fallopia</i> spp.) in Belgium. <i>Plant Ecology</i> , 2012, 213, 419-430.	1.6	15
67	Germination capacity and seed storage behaviour of threatened metallophytes from the Katanga copper belt (D.R.Congo): implications for ex situ conservation. <i>Plant Ecology and Evolution</i> , 2013, 146, 183-192.	0.7	15
68	Interspecific trait integration increases with environmental harshness: A case study along a metal toxicity gradient. <i>Functional Ecology</i> , 2020, 34, 1428-1437.	3.6	15
69	Why some species cannot colonise restored habitats? The effects of seed and microsite availability. <i>Journal for Nature Conservation</i> , 2013, 21, 189-197.	1.8	14
70	The voluntary code of conduct on invasive alien plants in Belgium: results and lessons learned from the AlterIAS LIFE+ project. <i>EPPO Bulletin</i> , 2014, 44, 212-222.	0.8	13
71	Mating system of <i>Calluna vulgaris</i> : self-sterility and outcrossing estimations. <i>Canadian Journal of Botany</i> , 1998, 76, 37-42.	1.1	13
72	Developing biodiversity indicators on a stakeholders' opinions basis: the gypsum industry Key Performance Indicators framework. <i>Environmental Science and Pollution Research</i> , 2016, 23, 13661-13671.	5.3	12

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73	Loss of pollinator specialization revealed by historical opportunistic data: Insights from network-based analysis. <i>PLoS ONE</i> , 2020, 15, e0235890.	2.5	12
74	PERSPECTIVE: Linking concepts in the ecology and evolution of invasive plants: network analysis shows what has been most studied and identifies knowledge gaps. <i>Evolutionary Applications</i> , 2010, 3, 193-202.	3.1	11
75	Patterns of hybridization and hybrid survival in the invasive alien <i>Fallopia</i> complex (Polygonaceae). <i>Plant Ecology and Evolution</i> , 2011, 144, 12-18.	0.7	11
76	Urban alien plants in temperate oceanic regions of Europe originate from warmer native ranges. <i>Biological Invasions</i> , 2021, 23, 1765-1779.	2.4	11
77	The influence of ecological infrastructures adjacent to crops on their carabid assemblages in intensive agroecosystems. <i>PeerJ</i> , 2020, 8, e8094.	2.0	11
78	Colonisation credit in recent wet heathland butterfly communities. <i>Insect Conservation and Diversity</i> , 2010, 3, 83-91.	3.0	10
79	Specialized edaphic niches of threatened copper endemic plant species in the D.R. Congo: implications for ex situ conservation. <i>Plant and Soil</i> , 2017, 413, 261-273.	3.7	10
80	Towards a population approach for evaluating grassland restoration—a systematic review. <i>Restoration Ecology</i> , 2018, 26, 227-234.	2.9	10
81	Arboreta reveal the invasive potential of several conifer species in the temperate forests of western Europe. <i>NeoBiota</i> , 0, 64, 23-42.	1.0	10
82	Molecular and morphological variation of rare endemic oncocyclis irises (Iridaceae) of Lebanon. <i>Botanical Journal of the Linnean Society</i> , 2009, 159, 123-135.	1.6	9
83	Mobility of copper and cobalt in metalliferous ecosystems: Results of a lysimeter study in the Lubumbashi Region (Democratic Republic of Congo). <i>Journal of Geochemical Exploration</i> , 2019, 196, 208-218.	3.2	9
84	Comparison of mining spoils to determine the best substrate for rehabilitating limestone quarries by favoring native grassland species over invasive plants. <i>Ecological Engineering</i> , 2019, 127, 510-518.	3.6	9
85	Plant community assembly along a natural metal gradient in central Africa: Functional and phylogenetic approach. <i>Journal of Vegetation Science</i> , 2020, 31, 151-161.	2.2	9
86	Mating system of <i>Calluna vulgaris</i> : self-sterility and outcrossing estimations. <i>Canadian Journal of Botany</i> , 1998, 76, 37-42.	1.1	7
87	Decline of endemic <i>Oncocyclis irises</i> (Iridaceae) of Lebanon: survey and conservation needs. <i>Oryx</i> , 2009, 43, 91.	1.0	7
88	Edaphic niches of metallophytes from southeastern Democratic Republic of Congo: Implications for post-mining restoration. <i>Journal for Nature Conservation</i> , 2016, 33, 18-24.	1.8	7
89	Performance variation of common ragweed (<i>Ambrosia artemisiifolia</i> L.) across invasion levels in Western Europe. <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , 2016, 220, 134-141.	1.2	7
90	Naturally recruited herbaceous vegetation in abandoned Belgian limestone quarries: towards habitats of conservation interest analogues?. <i>Folia Geobotanica</i> , 2018, 53, 147-158.	0.9	7

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91	Diaspore heteromorphism in the invasive <i>Bromus tectorum</i> L. (Poaceae): Sterile florets increase dispersal propensity and distance. <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , 2016, 224, 7-13.	1.2	6
92	Specialist plant species harbour higher reproductive performances in recently restored calcareous grasslands than in reference habitats. <i>Plant Ecology and Evolution</i> , 2015, 148, 181-190.	0.7	5
93	How Are Landscapes under Agroecological Transition Perceived and Appreciated? A Belgian Case Study. <i>Sustainability</i> , 2020, 12, 2480.	3.2	5
94	Conservation of an endemic metallophyte species: Effect of population history and vegetative density on the reproductive success of <i>Viola calaminaria</i> . <i>Journal for Nature Conservation</i> , 2011, 19, 72-78.	1.8	4
95	Gestion de <i>Crassula helmsii</i> en Belgique plus difficile qu'il paraît?. <i>EPP0 Bulletin</i> , 2011, 41, 226-231.	0.8	4
96	Using phytostabilisation to conserve threatened endemic species in southeastern Democratic Republic of the Congo. <i>Ecological Research</i> , 2018, 33, 789-798.	1.5	4
97	A framework to identify constraints to post-extinction recovery of plant species—Application to the case of <i>Bromus bromoideus</i> . <i>Journal for Nature Conservation</i> , 2020, 54, 125802.	1.8	4
98	Topsoil translocation in extensively managed arable field margins promotes plant species richness and threatened arable plant species. <i>Journal of Environmental Management</i> , 2020, 260, 110126.	7.8	4
99	Impact of ecosystem water balance and soil parent material on silicon dynamics: insights from three long-term chronosequences. <i>Biogeochemistry</i> , 2021, 156, 335-350.	3.5	4
100	Seed desiccation-tolerance is a common feature of threatened taxa in metalliferous tropical grasslands from southeastern DR Congo. <i>Journal for Nature Conservation</i> , 2020, 56, 125842.	1.8	4
101	Ecological niche distribution along soil toxicity gradients: Bridging theoretical expectations and metallophyte conservation. <i>Ecological Modelling</i> , 2020, 415, 108861.	2.5	3
102	Vegetative Regeneration Capacities of Five Ornamental Plant Invaders After Shredding. <i>Environmental Management</i> , 2015, 55, 423-430.	2.7	2
103	Functional traits of a broad-niched metallophyte along a toxicity gradient: disentangling intra and inter-population variation. <i>Environmental and Experimental Botany</i> , 2018, 156, 240-247.	4.2	2
104	Conservation and Management of a Threatened Traditional Agroresource, <i>Ylang-ylang</i> , in the Indian Ocean Islands. <i>Crop Science</i> , 2012, 52, 2606-2618.	1.8	1
105	The success of rock translocation for populations of the chasmophytic <i>Aeollanthus saxatilis</i> (Lamiaceae). <i>Journal for Nature Conservation</i> , 2020, 53, 125777.	1.8	0
106	EFFECTIVENESS OF GREEN ROOFS IN STRENGTHENING ECOLOGICAL NETWORK. <i>International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives</i> , 0, XLVI-4/W1-2021, 51-54.	0.2	0
107	Drought stress inducing intraspecific variability in <i>Potentilla tabernaemontani</i> (Rosaceae), a calcareous grassland species. <i>Plant Ecology and Evolution</i> , 2018, 151, 153-158.	0.7	0